AMMONIA AND TKN BY AUTOMATED PHENATE METHOD SM 4500-NH_3 G-1997 (2011)

ADDITIONAL QC REQUIREMENTS FOR THIS METHOD: Certified or Accredited laboratories using this method are assessed to applicable requirements of SM 1020 and SM 4020.

Facility Name:_____ VELAP ID_____

Assessor Name:_____ Analyst Name:_____ Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
1) Were samples preserved as: Cool, ≤6 °C, H_2SO_4 to pH <2?	CFR136.3 Table 1I				
2) Were samples analyzed within 28 days?	CFR136.3 Table 1I				
3) Were ammonia samples distilled or gas diffused (pH >11)?	CFR136.3 Table 1B				
4) If distillation not performed, was a distillation variance study performed per the requirements of the CFR and approved by VELAP?	CFR136.3 Table 1B Footer 6				
5) For TKN were samples digested and distilled (or gas diffusion) per 4500-N_{org} B-1997 or C-1997 and 4500-NH_3 B-1997?	CFR136.3 Table 1B				
6) For TKN, if samples are not distilled, was a block digester used?	CFR136.3 Table 1B Footer 20				
7) Were the pH's of wash water and standard solutions adjusted to approximate those of the samples using H_2SO_4?	4500-NH3 G1.b				
8) Were reagents prepared per the referenced method?	4500-NH3 3				
9) Was the air scrubber solution 5 N H_2SO_4?	4500-NH3 3.b				
10) Were the manifold tubing and flow rates set up as shown in Figure 1 of the method?	4500-NH3 4.b				
1) Was the concentration range 0.02 to 2.0 mg/L when measurement is made at 630-660 nm in a 1 to 5 cm tubular flow cell? (*higher concentrations can be determined by dilution*)	4500-NH3 1.c				
Notes/Comments: